

-1- (JAPIO)

ACCESSION NUMBER

TITLE

PATENT APPLICANT

INVENTORS

PATENT NUMBER

APPLICATION DETAILS

SOURCE

INT'L PATENT CLASS

JAPIO CLASS

ABSTRACT

86-079789

CORROSION INHIBITOR OF METAL

(2000307) TOSHIBA CORP

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C23F-011/167

12.6 (METALS--Surface Treatment)

PURPOSE: To provide a water soluble corrosion inhibitor made of a phosphine oxide compound having a specified structural formula and producing the effect on metals such as zinc in a basic atmosphere or the like.

CONSTITUTION: This corrosion inhibitor for metals is made of a phosphine oxide compound represented by the formula (where each of R(sup 1), R(sup 2) and R³ is H or 1-24Corg. group, preferably alkyl, aryl or a deriv. thereof). The inhibitor is especially effective on Zn, Sn, Al and Pb in a basic atmosphere. It has superior solubility in a polar solvent such as water and is used after dissolution in the solvent by about 0.0001-1.0mol/l. Said alkyl may be alkanyl, alkenyl, alkynyl, cyclohexyl or cyclohexenyl, and said aryl may be phenyl, tolyl, benzyl, styryl or naphthyl.